

CLAIMS:

1. A diversity receiver having multiple antenna receiving branches, characterized in that each branch has means for estimating at least a receiving channel parameter, and that the channel parameter estimating means in one branch are coupled to the channel parameter estimating means in an other branch for using at least a part of the channel parameter estimate in the one branch as an aid for estimating at least a receiving channel parameter in the other branch.
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2. The diversity receiver according to claim 1, characterized in that the channel parameter estimate in the one branch is used as a starting point for the channel parameter estimate in the other branch.
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3. The diversity receiver according to claim 1 or 2, characterized in that the channel parameter estimate in the one branch provides a coarse channel parameter estimate, which coarse channel parameter estimate is used as a start for the channel parameter estimate in the other branch.
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4. The diversity receiver according to one of the claims 1-3, characterized in that the estimating means in the other branch are coupled to the estimating means in said one branch for using at least a part of the channel parameter estimate in the other branch as an aid for estimating the receiving parameter channel in said one branch.
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5. The diversity receiver according to one of the claims 1-4, characterized in that the diversity receiver has two antenna receiving branches.
- 25 6. The diversity receiver according to one of the claims 1-5, characterized in that the system (1) is arranged for estimating a time delay between the appearance of a certain channel parameter estimate in the various branches.

7. A mobile radio communication device provided with a diversity receiver according to one of the claims 1-5, diversity receiver having multiple antenna receiving branches, characterized in that each branch has means for estimating at least a receiving channel parameter, and that the channel parameter estimating means in one branch are coupled to the channel parameter estimating means in an other branch for using at least a part of the channel parameter estimate in the one branch as an aid for estimating at least a receiving channel parameter in the other branch.

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8. A method wherein a signal is received through multiple antenna receiving branches, characterized in that in each branch an estimation is made about a received channel, and that channel estimation results from one branch are being used as an aid for estimating the received channel in an other branch.

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15 9. Signals suited for applying the method according to claim 8 in a mobile radio communication device according to claim 7 or a diversity receiver according to one of the claims 1-6, wherein a signal is received through multiple antenna receiving branches, characterized in that in each branch an estimation is made about a received channel, and that channel estimation results from one branch are being used as an aid for estimating the received channel in an other branch.